MODIS Elite Kit Overview:

Powerful, Fast, Easy.
Introducing MODIS, the innovative diagnostic platform that lets you pinpoint and diagnose today's sophisticated vehicles faster. The MODIS system incorporates advanced on-board diagnostic capabilities including Domestic and Asian Import Vehicle Communication Software, plus Fast-Track Troubleshooter; the industry's only software that integrates experience-based information with scan tool instrumentation. The MODIS system also features Snap-on's powerful 4-channel lab scope with multiple seconday ignition capabilities and a powerful Digital Graphing Multimeter built into a common architecture with expandable ports. Fast-Track Component Tests combine MODIS scope and DVOM instrumentation with information direct from factory-trained and ASE-certified master technicians to quickly locate, connect, test, and troubleshoot components. It's a hand-held with everything you need for today and tomorrow.

Fast. The MODIS system gives you fast one stop access to Snap-on's Domestic and Asian Import Vehicle Communication Software, supported by the industry's only experienced based Fast-Track Troubleshooter diagnostic database. Add to this the hottest 4-channel lab scope, digital graphing multimeter, and Fast-Track Component Tests and you are the fastest tech in the shop.

Easy. It's never been easier to diagnose today's vehicles. Snap-on's "easy scroll" feature allows technicians to easily navigate complex setups in seconds for complete and accurate repairs. No tool has more proven step-by-step repair procedures.

Powerful. A high speed PC-based platform opens the door to the future of diagnostics. USB, Compact Flash, Serial and Infrared ports, and a full color VGA display enhance the user experience.

MODIS Elite Kit Features

Scanner. Legendary Snap-on Scanner capabilities are included in the diagnostic platform of the future. No other scan tool even comes close to putting this much diagnostic power in the palm of your hand. The MODIS Scanner graphs up to eight parameters of live data and displays complete trouble code descriptions for GM, Ford, Chrysler, Jeep and Asian imports. Optional European software Optional European software provides live data, trouble codes, and advanced capabilities for BMW, Mercedes Benz and Volkswagen/Audi. The MODIS system will interface with Domestic, Asian import and European OBD-I and OBD-II compliant vehicles.

Lab/Ignition Scope: The MODIS system has the most powerful 4-channel lab scope available. Our scope helps you radically reduce the diagnostic time associated with intermittent problems by displaying four component signatures and their interaction, simultaneously - the key to finding the root cause of intermittent problems. It has all the power you'd expect in a full-size digital scope. With its simple controls and menus, both the experienced and novice technician will use the MODIS system lab/ignition scope to diagnose vehicles with fuel injection, sensors, and distributorless ignition systems. The latest ignitions systems are no problem for the MODIS system when using the optional Snap-on exclusive distributor ignition interface and coil-on-plug adapters. Advanced 5 millisecond multiple secondary views include parade, raster, superimposed, and single cylinder.

Digital Graphing Multimeter. The MODIS system has both a powerful, built-in Digital Graphing Multimeter and Dual Graphing Meter for the quick reliable measurements you need for working on today's vehicles. The large easy-to-read digital display features Min/Max display boxes to capture valuable troubleshooting information. The Digital Graphing Multimeter also allows you to plot individual automotive component signatures in an easy-to-read graphical display. Glitch detection has never been easier for such signals as MAF, TPS, O2 and more. The optional Snap-on Low Amps probe and Pressure/Vacuum Transducers expand the multimeter's versatility.

Fast-Track Troubleshooter Software: The MODIS system comes pre-loaded with all five of Snap-on's exclusive Fast-Track Troubleshooter titles, the industry's only experienced-based troubleshooting software for Domestic and Asian import vehicles. At the push of a button get VIN-specific "real-world" solutions, tips and repair strategies compiled by ASE certified master technicians for engine, transmission, body, airbag and ABS systems.

The Beauty of Modular Technology: The modular design of the MODIS system integrates Scanner, Lab/Ignition Scope, Digital Graphing Multimeter and expert Troubleshooter software into one unit. The latest MODIS software provides a common user interface for the optional Flexible Gas Analyzer, Technical Service Bulletins, and Heavy Duty Vehicle Communication Kit, extending your diagnostic capabilities even further. Future updates, enhancements and additional modules will allow you to expand the MODIS system capabilities. Utilizing advanced architecture makes upgrading MODIS software fast and easy. The possibilities are endless.

Getting a Grip On Answers: Our new 4-way thumb pad lets you navigate MODIS fast. Just scroll, highlight, and press the "Y" button.

Connectivity and Ports: MODIS has a familiar PC-based architecture that allows for future expandability: VGA port for connecting to PC monitors (great for training), two compact flash slots, serial, USB, infrared wireless printer connection ports. The MODIS system is ready for future external diagnostic modules, PC/Network and internet connections.

MODIS Elite Kit Highlights

- Includes MODIS 4.4 Software
- Fully portable lab/ignition scope: Road testing with an ignition scope is no longer a problem!
- Comes complete with Snap-on's Domestic and Asian Import Scanner software and five Troubleshooter titles installed and ready to go.
- Large, 640x480 full color VGA display is easy to see from a distance.
- Familiar PC platform makes upgrading future MODIS system products easy.
- Ruggedized case and end grips for added durability.
- Four-way thumb pad with Easy Scroll for enhanced navigation.
- Compact Flash technology for easy software updates and file storage.
- One year warranty.

Snap-on Industrial

MODIS™
modular diagnostic information system

MODEL EEMS300B00K
BID SPECIFICATION

PRODUCT FEATURES
- 4-channel lab/ignition scope
- Color graphing scan tool
- Domestic and Asian Fast-Track® Troubleshooter software
- Powerful Digital Graphing Multimeter
- Expandable diagnostic platform with 7" color LCD display
- Heavy-duty carrying case

DISPLAY DEVICE
- Color, liquid crystal, full VGA backlit display (LCD) 640x480
- Mouse style, multidirectional thumb pad navigation
- VGA output for remote display or projection interface
- Infrared output for compatible wireless printers
- USB and serial ports for keyboard, gas analyzer, dyno or PC interface
- Compact Flash/Wireless communication port

SCAN TOOL PLUG-IN FUNCTIONS

The legendary Snap-on® Color Graphing Scanner™ scan tool is included in the diagnostic platform of the future. No other scan tool even comes close to putting this much diagnostic power in the palm of your hand. The Snap-on® Scanner™ scan tool graphs live data and displays complete trouble code descriptions for GM, Ford, Chrysler, Jeep and Asian imports. Optional European software provides live data and complete trouble code descriptions for BMW, Mercedes Benz and Volkswagen/Audi.
The MODIS™ system will interface with 1980 and later Domestic, Asian import and European OBD-I and OBD-II compliant vehicles.

General Motors Coverage 1980-1/2 and newer
- Enhanced OBD-II & Generic OBD-II modes
- Engine & Body Diagnostics, incl. Connector locator, ECM & EGR tests, Body, Airbag, Functional Tests, Crank Pos Relearn
- OBD-II Bi-Directional Testing, incl. ICB, IAC, EGR,
- Delco Moraine-III bleeding, Transshifting, TCC PWM, Adapt. Memory
- Transmission Diagnostics, incl. 4T80E, 4L60E, 4T60E, 4L80E, Saturn, Catera, 2-Speed Automatic Transfer Case '98/'99
- ABS Brake Diagnostics, incl. Bosch, VCM4WAL, RWAL, ASR, Delco-Moraine & Teves, Catera

Ford Coverage 1981 and newer
- Engine & Body Diagnostics, incl. Connector locators, OBD-II, DCI, GEM body, EEC & MCU systems, Super Star II functions, SAE J1930 terms
- Functional Tests, incl. 7.3 Powerstroke Transmission Diagnostics
- ABS Brake Diagnostics, incl. many Bosch, Teves, Kelsey-Hayes

Chrysler Coverage 1983 and newer
- Engine & Body Diagnostics, incl. Connector locators, CCD, SBEC, MEC functional tests, PCM VIN Programming
- OBD-II Bi-Directional testing, incl. Misfire counters, EGR & Purge tests, generator field, Pending codes
- '98/'00 Cummins Diesel
- ABS coverage, incl. Teves MKIV & MK20, Bendix 4, 6 & 10
- Transmission Diagnostics, incl. EMCC reset, "Quick Learn", 42LE, A604, CVI

Asian Import Coverage
- Asian import including; Acura, Daihatsu, GEO, Honda, Hyundai, Isuzu, Kia, Mazda, Mitsubishi, Nissan, Infinity, Subaru, Toyota and Lexus. and gives you enhanced OBD-II, Nissan and Infinity data stream, pre-OBD-II Honda data stream, bi-directional controls for GEO, Nissan, Infinity, Lexus, and Toyota, as well as extensive airbag and ABS coverage

Generic OBD-II through current year
- Coverage of Domestic, Asian imports and most European compatible vehicles through 2003 includes codes and data, drive cycle, freeze frame and readiness monitor communications

Scan Tool Plug-in Standard Accessories
- Includes most required cables and adapters covering Domestic and Asian Imports application as early as 1980
- Asian import, GM, Ford, Chrysler and Jeep reference manuals, also new Fast-Track® Troubleshooter reference manuals on CDs

SCAN TOOL DIAGNOSTIC SOFTWARE

MODIS™ comes preloaded with Snap-on® Exclusive Fast-Track® Troubleshooter Software:
- **Domestic/Asian Import Drivability Troubleshooter Software**
- **Domestic/Asian Import Transmission Troubleshooter Software**
- **Domestic/Asian Import ABS Troubleshooter Software**
- VIN-specific troubleshooting and repair information based on the working experience of OEM and ASE certified Master Technicians
- Coverage includes engine, ABS and transmissions systems with street proven, time saving tips and repair strategies for Domestic and Asian import vehicles
- Complete reference information on CD incl. schematics, component identifiers and locators and bulletins
- Generic OBD-II troubleshooter coverage includes codes, drive cycle, freeze frame and readiness monitor tips, references and test procedures

LAB SCOPE PLUG-IN

Four-Trace Scope: Captures and displays "live" signals up to four waveforms on screen in real time
- Displays digital readout along with each waveform to determine voltage at the selected point on the waveform
- Snapshot: Capture data over time saved into a buffer
- Easy Scroll: Streamlines selection of menu and toolbar items
- AC Coupling: Provides the ability to enlarge the alternating current (AC) component of a signal for closer examination
- Invert: Flip waveform to adjust for flexible hookups and easier viewing
- Autofind: Automatically pre-configure the vertical scale
- Load Configuration: Designed to allow the user to select factory preset screens or define a custom setup and retrieve them as needed – diagnostic tasks most frequently performed on specific components would be selected to view the performance of sensors, actuators and circuits on a vehicle
- Peak Detect: User selectable for capturing hi-speed signals

Model EEMS300B00K MODIS™ System Elite Kit

DIGITAL MULTIMETER

- Auto scaling, high-impedance digital graphing multimeter measurement system
- Pinpoint measurement of:
  - DC volts
  - AC Volts RMS
  - Ohms
  - Continuity with audible beep

LAB SCOPE/DIGITAL MULTIMETER STANDARD ACCESSORIES

- Includes: 4-lead set, channels one and two are shielded – secondary probe – RPM probe

  Capabilities with Optional Probes
  - DC current amps – Pressure – Vacuum – Secondary ignition Probe for Coil-on-Plug, Coil-in-Coil, Distributorless Ignition

POWER/WEIGHT/DIMENSIONS

- Line power: 110/12V adapter/battery charger included
- Batteries: NiMH battery pack included
- Fuse: 5A (Buss ATC, Littlefuse ATO, or equivalent incl.)
- Weight: 5lbs. 11oz. with plug-in modules and battery
- Dimensions (ruggedized case): 7.3/4"H x 14" W x 3.3/8" D

OPTIONAL ACCESSORIES

MODIS™ SYSTEM OPTIONAL ACCESSORIES

Fan Filters (5 pack) – EAKO253B02A
Auxiliary Battery Pak – EEMS301A01
Auxiliary Battery Pack Charger – EEMS301A02
Portable 5-Gas Analyzer – EEEA300A

LAB SCOPE/DIGITAL GRAPHING MULTIMETER MODULE

Ignition Coil Adapters
EETM306A03 COP-1 FORD
EETM306A04 COP-2 CHRYSLER
EETM306A05 CIC-2 TOYOTA
EETM306A06 CIC-1 GM
EETM306A07 COP-3 VW/AUDI
EETM306A08 COP-4 HONDA/ISUZU/NISSAN
EETM306A09 COP-5 VOLVO/BMW
EETM306A10 COP-6 MERCEDES
EETM306A11 COP-7 MERCEDES DUAL
EETM306A12 COP-8 BMW
EETM306A13 COP-9 LEXUS

LAB SCOPE/DIGITAL GRAPHING MULTIMETER MODULE

Low Amp Current Probe – EETA308A
Split Lead Adapter – EEMS301A05
100 PSI Pressure / Vacuum Transducer w/cable – EEPV302AL
500 PSI Pressure Transducers w/cable – EEPV302AT
5000 PSI Pressure Transducers w/cable – EEPV302AH
Transducer Extension Cable – EAX0024B30A

SCAN TOOL MODULE OPTIONAL ACCESSORIES

Flat Extension Data Cable – MT2500302
OBD-II Extension Cable – MT2500301

SPECIFICATIONS

LAB SCOPE

Function	Range	Comments
Channels	1 - 4	Common Ground
Sample Rate	1.5 MSPS	Simultaneous
Sample Rate Single Channel Mode	1.5 MSPS	Only Available w/Single Channel Operation
Bandwidth	3 Mhz	
Input Impedance	10 Megohms	All channels
VDC (Full Scale) and Peak to Peak	400 Volts 200 Volts 100 Volts 50 Volts 20 Volts 10 Volts 5 Volt 2 Volt 1 Volt 500 millivolt 200 millivolt 100 millivolt	
RPM Measurement	0 – 10000 RPM	
Secondary Ignition	1 – 50 KV	Channels 1 and 2

MULTIMETER

Function	Range	Comments
Graphing Multimeter		
Input Channels	1	
Input Impedance	10 Megohm	
Volts (DC)	400 mV thru 400V*	Auto Ranging
Frequency	5 Hz thru 50 Khz	Auto Threshold Setting
Pulse Width	5 ms thru 2 s	Auto Threshold Setting
Inj Pulse Width	5 ms thru 2 s	
MC Dwell (60)	20 - 40 - 60 degrees	Auto Threshold Setting
MC Dwell (90)	30 - 60 - 90 degrees	Auto Threshold Setting
Duty Cycle	20 - 40 - 60 - 80 - 100%	Auto Threshold Setting
Low Amps (20)	1 - 2 - 5 - 10 - 20A	With EETA308A
Low Amps (40)	10 - 20 - 40A	With EETA308A
Vacuum	5 - 10 - 20 in Hg	Sensor specific
100 psi Pressure	10 - 25 - 50 - 100 PSI	Sensor specific
500 psi Pressure	50 - 100 - 250 - 500 PSI	Sensor specific
5000 psi Pressure	500 - 1000 - 2500 - 5000 PSI	Sensor specific
Digital Multimeter		
Input Channels	3 / 4	Isolated Ground
Input Impedance	10 Megohm	
Ohms	400 Ohm thru 4 Megohm	Auto Ranging
Diode/Continuity	2V	Auto Ranging
Volts (AC)	See Safety Warning	Auto Ranging
Volts (DC)	400 mV thru 400V *	Auto Ranging

* See Safety Warnings

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new product announcement

October 4, 2004

MODIS™ 4.4

Includes all features & titles from bundles 2.0, 3.2, 4.1, & 4.2

More Asian Import Diagnostic Horsepower Plus 2 New Troubleshooters

- **2003 Asian Import Vehicle Communications Software**
- **2002 Asian Import Driveability Fast-Track® Troubleshooter**
- **2002 Domestic Driveability Fast-Track® Troubleshooter**
- **2003 VW/Audi Communications Software***
  * Requires optional MODIS™ European Software Kit, EEMS320C03
- **Support for Optional Fast-Track® PCLink Software**

1st time MODIS™ buyers

MODIS™ Elite Kit
EEMS300C03
Includes:
• MODIS™ with software bundle 4.4
• Asian and domestic scan tool cables, adapters, and personality keys
• 2 Shielded lab scope leads • 2 non-shielded lab scope leads • Alligator clips and test probes • Secondary coil adapter lead • Clip-on secondary coil adapter • Inductive RPM pick-up
• Battery • Power adapter • All related reference and user's manuals

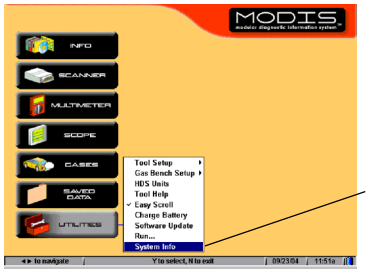
Upgrade from MODIS™ bundle 4.2

4.4 Software Bundle
EESP300C03
Includes:
- Installation Instructions
- Bundle 4.4 Compact Flash
- Troubleshooter reference manual CD
- K-17 and K-18 Personality Keys

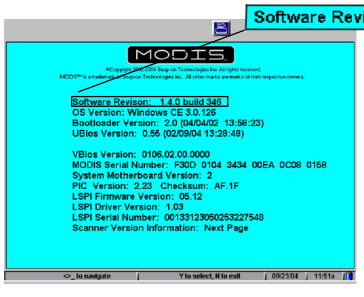
Upgrade from bundle 4.1 or earlier

4.4 Software Bundle
EESP300C03H
Includes:
- Installation Instructions
- Bundle 4.4 Compact Flash
- Troubleshooter reference manual CD
- K-13A, K-16, K-17 and K-18 Personality Keys
- Upgraded Scanner Plug In (SCPI)
- Bundle 4.2 compact flash (DISCARD – latest update is on 4.4 compact flash)

To determine the software bundle of a Modis:



1. Select UTILITIES/ System Info from the menu


Software Revison: 1.4.0 build 346
MODIS
Software Revison: 1.4.0 build 346
OS Version: Windows CE 3.0.126
Bootloader Version: 2.0 (04/04/02 13:58:23)
UBios Version: 0.55 (02/09/04 13:29:48)
VBios Version: 0106.02.00.0000
MODIS Serial Number: F30D 0104 3434 00EA 0CD8 0168
System Motherboard Version: 2
PIC Version: 2.23 Checksum: AF1F
LSPI Firmware Version: 05.12
LSPI Driver Version: 1.03
LSPI Serial Number: 00133123050253227548
Scanner Version Information: Next Page

2. Revision is displayed use key below

Revision	*Bundle*
1.0.0	Original
1.1.0	OS Update
1.1.1	2.0
1.2.0	3.2
1.3.0	4.1
1.4.0	4.2
1.5.0	4.4

WARNING • **Read & follow instructions before use.**

EU - Unavailable
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#20879

Brand Marketing

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NEW COVERAGE/FEATURES!

2003 ASIAN IMPORT VEHICLE COMMUNICATION SOFTWARE

- In-depth coverage for 1983 through 2003 vehicles • Two entirely new model years of coverage
- Manufacturer-specific enhanced coverage for Acura, Honda, Hyundai, Infiniti, Isuzu, Kia, Lexus, Mazda, Mitsubishi, Nissan, and Toyota

2002 DOMESTIC DRIVEABILITY FAST-TRACK TROUBLESHOOTER

- Thousands of New Code and Symptom Tips for 1980 through 2002 Vehicles
- Experience-Based Coverage for Ford, GM, Chrysler and Jeep Expanded through 2002
- New symptom tips added • Enhanced diesel symptom tips with additional insight from techs in the field
- Technical service bulletins through 2003 model year • Enhanced functional test descriptions
- Enhanced component testing • Next generation Chrysler evaporative leak detection (NVLD) system tests & diagnostic procedures
- Ford PATS system information added

2002 ASIAN IMPORT DRIVEABILITY FAST-TRACK TROUBLESHOOTER

- Thousands of New Code and Symptom Tips for 1980 through 2002 Vehicles
- Enhanced OBD-II Fast-Track® data scan tips reflect manufacturer-specific enhanced datastream capabilities
- Over 10,000 code and symptom tips for 13 Asian import makes
- New and updated service bulletin-related tips for 2002 and earlier model year vehicles
- Separate "code set conditions" tip section for 1994–2002 OBD-II cars and trucks
- Additional tips for all engine-related OBD-II codes through the 2001 model year
- Additional new non-code related tips up to 2002 models
- Revised or enhanced tips for 2000 & earlier model year vehicles
- Updated reference manual on CD with additional wiring schematics relating to OBD-II code tips and enhanced component location schematics, procedures and illustrations through 2002

*2003 VW/AUDI VEHICLE COMMUNICATION SOFTWARE**

* Requires MODIS European Vehicle Communication Software Kit (Link)

- Volkswagen model variations include Beetle, Cabriolet, Corrado, Eurovan, Fox, Golf, GTI,Jetta, Passat, and Vanagon
- Audi model variations include 80,90,100,200, A4, A6, A6 Wagon, A8, Allroad, Cabriolet, Coupe, S4, S6, S8, TT, and V8
- Supports all engine, transmission, ABS, and airbag systems • Covers up to 35 additional on-board systems
- Detailed parameter defi nitions in users manual • Pre-defined data groups
- Exclusive readiness code setting charts for validating repairs and emission testing
- Expert mode provides advanced diagnostic factory tool capabilities

SUPPORT for OPTIONAL PCLINK SOFTWARE (available 1st quarter 2005, EESP311A01)

- Establish a wireless MODIS™ connection to your PC
- Move, archive, & view your MODIS™ files and presets on a PC • Playback lab scoe snapshots on your PC

EXISTING COVERAGE/FEATURES

2003 DOMESTIC VEHICLE COMMUNICATION SOFTWARE

GM VEHICLE COMMUNICATION SOFTWARE

- Engine and body diagnostics, incl. connector locator, ECM & EGR tests, body, airbag, functional tests, crank position relearn, & more
- Bi-directional testing, including ICB, IAC, EGR, Delco-Moraine III bleeding, transmission shifting, TCC PWM, and adaptation memory
- Transmission diagnostics, including 4T80E, 4L60E, 4T60E, 4L80E, Saturn, Catera • 2-speed automatic transfer case
- ABS diagnostics, including Bosch, VCM4WAL, RWAL, ASR, Delco-Moraine, Teves, and Catera

CHRYSLER VEHICLE COMMUNICATION SOFTWARE

- Engine & body diagnostics, including connector locators, CCD, SBEC, SMEC, Renix, MCU, and Delco
- Bi-directional testing, including misfire counters, EGR & purge tests, generator field, PCM VIN programming and much more
- Cummins diesel coverage • ABS coverage, including Teves MKIV & MK20, and Bendix 4, 6 & 10
- Transmission diagnostics, including EMCC reset, Quick Learn, 42LE, A604, CVI, 42RE & AW4

FORD VEHICLE COMMUNICATION SOFTWARE

- Engine & body diagnostics, including connector locators, DCl, GEM body, EEC & MCU, Super Star ll functions, SAE J1930 terms, & more
- Functional Tests, including 7.3 Powerstroke Transmission Diagnostics
- ABS Brake Diagnostics, including Bosch, Teves, and Kelsey-Hayes systems

GLOBAL OBD VEHICLE COMMUNICATION SOFTWARE

- Establishes communication with the appropriate vehicle protocol automatically, including CAN (CAN Vehicle require optional adapter<LINK to MT250083>) • Tests system readiness status • Mode 1: graphs or displays current data • Mode 2: retrieves freeze frame data
- Mode 3: monitors diagnostic trouble codes • Mode 4: clears emissions related data • Monitors test parameters and results, which include: Mode 5: oxygen sensor monitoring, Mode 6: non-continuously monitored systems, Mode 7: diagnostic trouble codes detected during last drive • Mode 9: displays important vehicle information

EXISTING COVERAGE/FEATURES continued

DOMESTIC TRANSMISSION FAST-TRACK® TROUBLESHOOTER

- Transmission/transaxle coverage for GM, Ford, Chrysler and Jeep vehicles 1981 - 2000 model year
- Technical service bulletins through 2000 model year
- Enhanced Fast-Track® data scan tips
- Expanded symptom tips, including hundreds of updates to older transmissions
- Transmission functional test insight
- Hundreds of transmission wiring diagrams on CD

ASIAN IMPORT TRANSMISSION FAST-TRACK® TROUBLESHOOTER

- Enhanced OBD-II Fast-Track® data scan tips reflect manufacturer-specific enhanced datastream capabilities
- Over 10,000 code and symptom tips for 13 Asian import makes • Technical service bulletin tips through 2001
- Separate "code set conditions" tip section for 1994–2001 OBD-II cars & trucks
- Additional tips for all engine-related OBD-II codes through the 2001 model year
- New non-code related tips up to 2001 models • Revised or enhanced tips for 2000 & earlier model year vehicles
- Additional or updated service bulletin-related tips for 2001 & earlier model year vehicles
- Updated reference manual on CD with additional or enhanced wiring schematics relating to OBD-II code tips and component location schematics, procedures and illustrations through 2001

ABS FAST-TRACK® TROUBLESHOOTER

- Solutions for all ABS-related codes through 2001 models • Symptom-based tips for 2001 models and earlier
- 24 vehicle makes supported • Information revised, enhanced and added for 2000 & earlier models
- Service bulletins updated for 2001 & earlier vehicles • ZAE and AB2 Air Bag Systems
- EWM203, EWM210 and EWM220 Electronic Shift Control Modules • KLA and TAU Climate Control Systems
- EA/CC/ISC Electronic Actuator, Cruise Control, Idle Speed Control Module
- ML Transfer Case

*2003 BMW VEHICLE COMMUNICATION SOFTWARE**

* Requires MODIS European Vehicle Communication Software Kit (Link)

- Over 400 BMW model configurations • Model variations include 3-Series, 5-Series, 7-Series, 8-Series, X5, Z1, Z3, Z8, MINI
- Review and print important control unit identification information • Advanced LED menu to display state of many digital signals
- Expanded parameter definitions on-screen and in the user's manual
- Exclusive U.S. specific BMW application charts separate European and U.S. vehicles
- Codes, data, actuator tests, and functional tests for 30 BMW engine systems
- Oil and service light resetting procedures included • BMW application controls • Codes and data for 16 transmission systems
- Electronic transmission coverage • Reset adaptation after ECU and gearbox changes • 10 anti-lock brake systems
- Integrated ABS/ASC/DSC MIL explanations

*2003 MERCEDES-BENZ VEHICLE COMMUNICATION SOFTWARE**

* Requires MODIS European Vehicle Communication Software Kit (Link)

- Complete parameter data lists for engine and transmission systems
- Bi-direction actuator tests for engine systems with capabilities similar to the factory tool
- Automatic version coding for engine and transmission control module replacement
- Engine management system coverage: LH-SFI: 1992–1996, HFM-SFI: 1993–1995, ME-SFI: 1996–2003, EDC, EDS, and IFI diesel management systems
- Transmission systems coverage: EGS 5.2: 2002–2003, EAG: 1992–1996, EGS: 1996–2003
- Other systems coverage: ZAE and AB2 Air Bag Systems, EWM203, EWM210 and EWM220 Electronic Shift Control Modules, KLA and TAU Climate Control Systems, EA/CC/ISC Electronic Actuator, Cruise Control, Idle Speed Control Module, ML Transfer Case

ADVANCED IGNITION SCOPE CAPABILITIES

- Multiple Secondary Ignition Modes • Parade 5ms • Raster 5ms • Superimposed 5ms • Single Cylinder Modes
- Cylinder 5ms • Single Cylinder Ignition
- Waste Spark and Direct Ignition Systems (Require the Optional Snap-on Distributorless Ignition System Kit)
- Direct Ignition Systems (Requires Optional Coil-On-Plug Adapters)

*HEAVY DUTY VEHICLE COMMUNICATION SOFTWARE**

*Requires Optional MODIS Heavy Duty Vehicle Communication Kit

- Supports Trouble Codes and Parameter Data for Most Engine, Transmission and ABS Systems

ORDER: EEMS301A04

June 8, 2004

MODIS™ Capacities now include
Heavy Duty Vehicle Communications Software

Overview:

This powerful new add-on package will provide the MODIS user with **access to computer controls for over-the-road class 8 trucks**. This is an excellent add for any mixed fleet service repair facility. Provides the complete Heavy Duty Standard (HDS) diagnostic capabilities.

Support:

The Heavy Duty Standard Vehicle Communication Interface supports communication with **electronically controlled Medium to Heavy Duty Diesel Vehicles (Classes 4-8; above 14,000 GVW)** that use J1587/J1708 non-proprietary diagnostic data stream information including:

- Freightliner
- Ford
- GM-GMC
- International Truck and Engine
- Mack Trucks
- Kenworth
- Peterbilt
- Sterling
- Volvo

Heavy Duty Standard is compatible with the following **OEM and suppliers electronic Engines, Transmissions and ABS since 1987**:

- Allison Transmission's (WTEC II & III)
- Cummins
- Caterpillar
- Detroit Diesel Corp
- Eaton
- Bendix
- Meritor WABCO
- ZF Meritor

Applications:

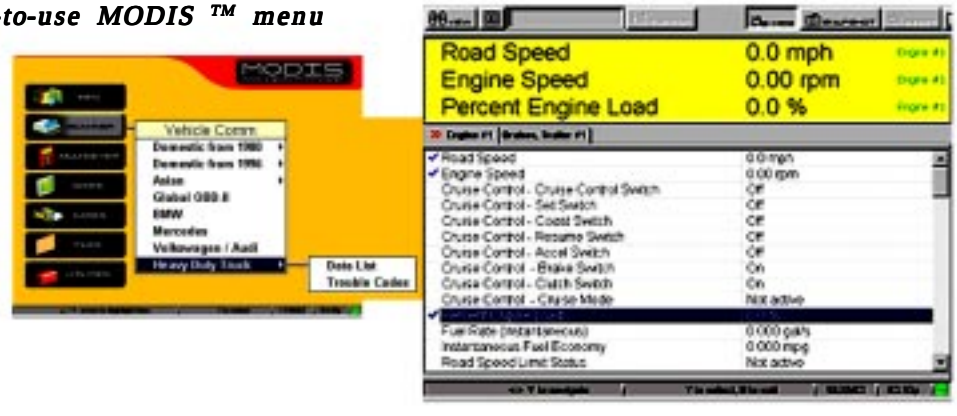
- Walk-in Vans
- Municipal Vehicles
- Vocational Vehicles
- Buses
- Refuse trucks
- Fire Trucks
- Cement and Dump trucks
- Refrigerated Trucks
- Tow Trucks
- Medium/Heavy • Conventional Trucks

NOTE: TopKick with CAT engine requires a J1962 connector, but uses J1708 communications.

Contents include:

Heavy Duty Vehicle Communications Interface
Deutsch 6 and 9 PIN "Y" Adapter
Users manual
Serial communications Cable
Compact Flash Card with Software Application

Easy-to-use MODIS ™ menu


MODIS
Vehicle Comm
Domestic from 1980
Domestic from 1996
Asian
Global OBD II
BMW
Mercedes
Volkswagen / Audi
Heavy Duty Trucks
Data List
Trouble Codes
Road Speed 0.0 mph
Engine Speed 0.00 rpm
Percent Engine Load 0.0 %
Road Speed 0.0 mph
Engine Speed 0.00 rpm
Cruise Control - Cruise Control Switch Off
Cruise Control - Set Switch Off
Cruise Control - Coast Switch Off
Cruise Control - Resume Switch Off
Cruise Control - Accel Switch Off
Cruise Control - Brake Switch On
Cruise Control - Clutch Switch On
Cruise Control - Cruise Mode Not active
Fuel Rate (Instantaneous) 0.000 gal/h
Instantaneous Fuel Economy 0.000 mpg
Road Speed Limit Status Not active

⚠ WARNING • **Wear safety goggles. (User & bystanders)** • **Read & follow instructiond before operating.**

EU - Unavailable

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#20778

Brand Marketing

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Snap-on Diagnostics
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October 27, 2003

To Whom It May Concern,

Snap-on is the sole source manufacturer and distributor of the MODIS ™ product in the United States of America.

Best Regards,

Ed Maron
Vice President, Sales
Snap-on Diagnostics